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## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A transgenic mouse, comprising a transferred recombinant

mouse GANP gene encoding and expressing a protein of SEQ ID NO: 2 [[or 4]] or progeny

thereof encoding and expressing said protein, wherein said transgenic mouse produces high

affinity antibody-producing B cells.

2. (Previously Presented) The transgenic mouse according to claim 1, wherein the

GANP gene is expressed in B cells of the transgenic mouse, or its progeny.

3-4. (Canceled)

6. (Currently Amended) A part of a transgenic mouse, comprising a transferred

recombinant mouse GANP gene encoding and expressing a protein of SEQ ID NO: 2 [[or 4]], or

progeny thereof encoding and expressing said protein, wherein said part of the transgenic mouse

produces high affinity antibody-producing B cells.

6. (Previously Presented) A method of producing a high affinity antibody, comprising:

administering an antigen to the transgenic mouse according to claim 1 or its progeny; waiting for

a time sufficient for said mouse to generate antibodies to said antigen; and recovering the

antibody from the resultant mouse or progeny.

7-11. (Cancelled)

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12. (Currently Amended) A high affinity-antibody producing cell which is taken from

a transgenic mouse, comprising a transferred recombinant mouse GANP gene encoding and

expressing a protein comprising SEQ ID NO: 2 [[or 4]], or progeny thereof encoding and

expressing said protein, and wherein said transgenic mouse or its progeny has been administered

an antigen.

13. (Previously Presented) The method according to claim 6, comprising:

obtaining blood from the mouse after administration of the antigen, separating and

purifying antibodies from the blood to recover the antibody.

14. (Previously Presented) The method according to claim 6, wherein the antigen is

administered two to three times at intervals of from 7 to 30 days.

15. (Previously Presented) The method according to claim 6, wherein an administration

dose of the antigen is from 0.05 mg to 2 mg.

16. (Previously Presented) The method according to claim 6, wherein the route of

administration is subcutaneous, dermal, intraperitoneal, intravenous or intramuscular.

17. (Previously Presented) The transgenic mouse according to claim 1, wherein said

GANP gene is operably linked to a human IgG enhancer, or its progeny.

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18. (Previously Presented) The method according to claim 6, wherein said GANP gene is operably linked to a human IgG enhancer.

19. (Previously Presented) The cell according to claim 12, wherein said GANP gene is operably linked to a human IgG enhancer, or its progeny.